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FILM SEMICONDUCTOR THIN-**AMORPHOUS** (54) METHOD OF FORMING

(57) Abstract:

decomposition of a silane compound a substrate by the thermal repeating the operation in which a the plasma of a non-depositing reactive and the thin-film formed is exposed to semiconductor thin-film is formed onto PURPOSE: To improve stability to light irradiation remarkably by

upper limit of the number of repetition of repetition is twice or more. The gas, but it is desirable that the number plasma treatment of the non-depositing non-depositing reactive compound gas is executed successively. A specified shaped is exposed to the plasma of a treatment process in which a thin-film semiconductor thin-film. A plasma decomposed, thus forming a Such a raw material gas is thermally particularly favorable on handling. monosilane, disilane and trisilane are represents a natural number), and general formula SinH2n+2 (N as a raw material gas is shown by CONSTITUTION: A silane compound less are used. times or less, preferably 200 times or is not limited particularly, but 1000 the operation of film formation through thermal decomposition and the film thickness is acquired by repeating

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